

Work Order ID 108648

Tuesday, October 29, 2013 11:21:04 AM

108648

Page 1

Item ID: D3215-041

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Harness Assembly

Start Date: 10/25/2013 Start Qty: 47.00

47

Cust Item ID:

Required Date: 11/15/2013 Req'd Qty: 47.00

47

Customer:

Reference:

Approvals: Process Plan: CL

Date: 13/10/29 Tooling:

Date:

Run

Start

NR1

QC: _____

Date: _____ SPC (Y/N):

Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3215	Rev D

100 PURCHASING 0.00

100

Purchasing

Memo

0.00

Issue P/O: 21853 to Tulmar Safety Systems

D3215-041 as per Dwg D3215

Ship to Tulmar

Certificate of Conformity is required

CL 13/10/29 (47)

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging

Memo

0.00

Ensure certificate of conformity is attached

R 13/11/12 (47)

120 QC6- Inspect dimensions to drawing 0.00

120

QC

Memo

0.00

DAS
27
9-89
13/11/12

47

Quality Control

100

Work Order ID 108648

Tuesday, October 29, 2013 11:21:04 AM

108648

Page 2

Item ID: D3215-041

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Harness Assembly

Stop

NS2

Start Date: 10/25/2013 Start Qty: 47.00

47

Cust Item ID:

Required Date: 11/15/2013 Req'd Qty: 47.00

47

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

130

Packaging

Packaging

Identify as per dwg & Stock Location

(2x) ST262 (2x)

Memo (16x) PPP 108672
(9x) PPP 108639

0.00

DAS

28

9:39

13-11-12

140

140

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

13/11/13 (JF)
JMF

13-11-12

Picklist Print

Tuesday, October 29, 2013 11:21:03 AM

Page 1

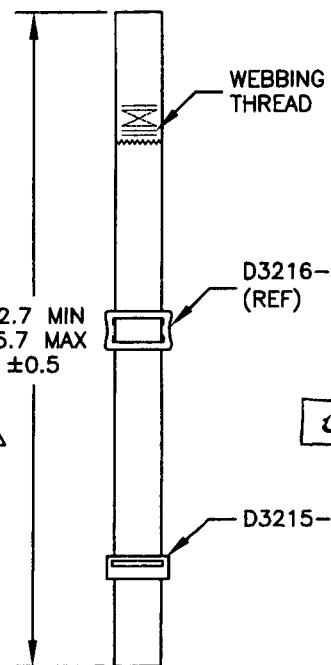
Work Order ID:	108648	Start Date:	10/25/2013	Required Date:	11/15/2013
Parent Item:	D3215-041				
Parent Item Name:	Harness Assembly	Start Qty:	47.00	Required Qty:	47.00
Comments:	IPP A03.10.28 New Issue KJ/RF IPP B 07.06.12 ecn 940 EC				

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3215-041P Harness Assembly		Purchased	No			110	Each	0.0000	1	47		13/10/12 (G)	
D3215-3 Webbing Tidy		Manufactured	No			100	Each	1.0000	1	47		2/13/10/01	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>	B108649 X40 B108673 X4				
				ST033		1							
					101428		1						
D3216-1 Fitting		Manufactured	No			100	Each	8.0000	1	47		2/13/10/30	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST033		8							
					101886		4						
					94993		4						

B108650 X47



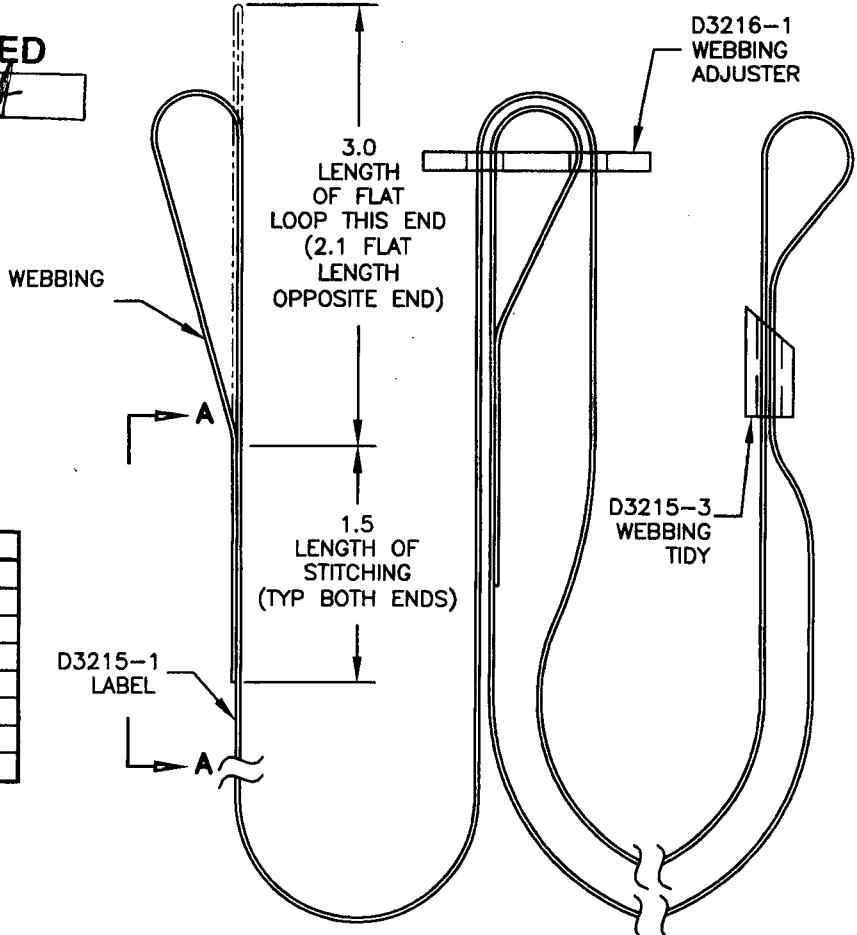
DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHECKED <i>CE</i>	APPROVED <i>HF</i>	DRAWING NO. D3215
		REV. D SHEET 1 OF 3
DATE 07.03.27		TITLE BELT ASSEMBLY SCALE NTS



ASSEMBLY DETAIL
NOT TO SCALE

RELEASED

07.06.07



PARTS LIST:

QTY	P/N	DESCRIPTION
X	D3215-041	BELT ASSEMBLY
AS REQ'D	SEE NOTE 1	WEBBING
AS REQ'D	SEE NOTE 1	WEBBING THREAD
AS REQ'D	SEE NOTE 1	LABEL THREAD
1	D3215-1	LABEL
1	D3215-3	WEBBING TIDY
1	D3216-1	WEBBING ADJUSTER

D3215-041 BELT ASSEMBLY:

1) MATERIAL: WEBBING = LAGRAN CANADA INC. 26472, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 5700 lb MIN

OR BELT TECH CANADA INC. 27039, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 6000 lb MIN

WEBBING THREAD = V-T-295 TYPE II CLASS A SIZE 3, BLACK NYLON THREAD
LABEL THREAD = V-T-295 TYPE II CLASS A SIZE F, BLACK NYLON THREAD

2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

4) SEE SHEET 3 FOR VIEW A-A

*10/2001
10/2001
10/2001
10/2001*

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NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

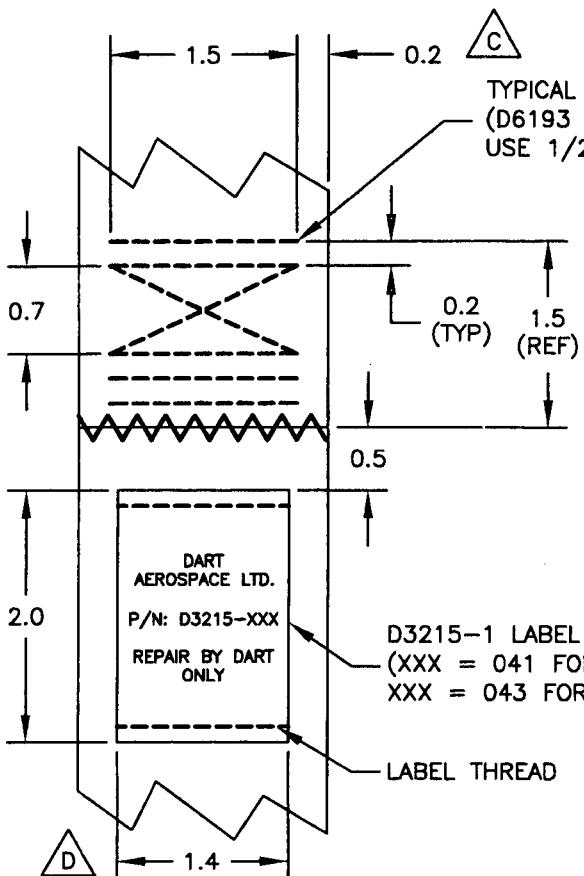
DQA: Date: .

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS						
				Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube				General Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/>			Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions <input type="checkbox"/>				Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/>
											<input type="checkbox"/> Other	

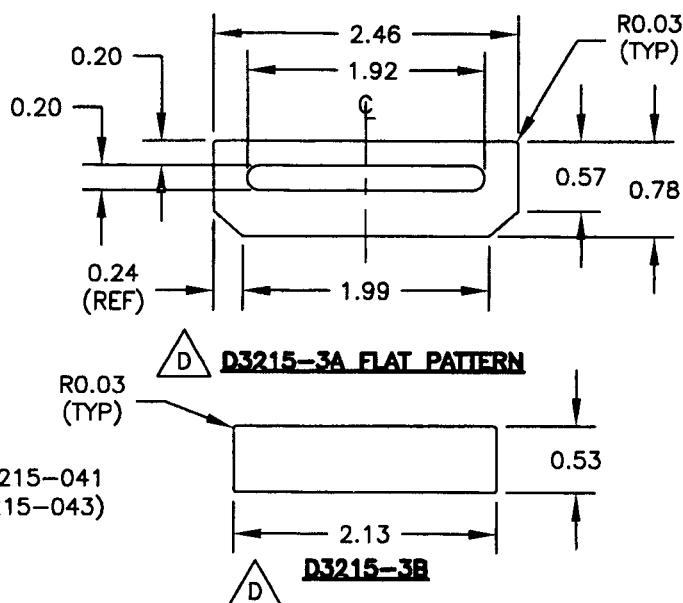


DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECHED <i>CE</i>	APPROVED <i>W</i>	DRAWING NO. D3215	REV. D SHEET 3 OF 3
DATE 07.03.27		TITLE HARNESS ASSEMBLY	SCALE 3:2



VIEW A-A

TYPICAL STITCHING PATTERN
(D6193 TYPE 301, 7-10 STITCHES PER IN.
USE 1/2 MIN. BACKSTITCH, NO LOOSE THREADS)



D3215-3A / -3B NOTES:

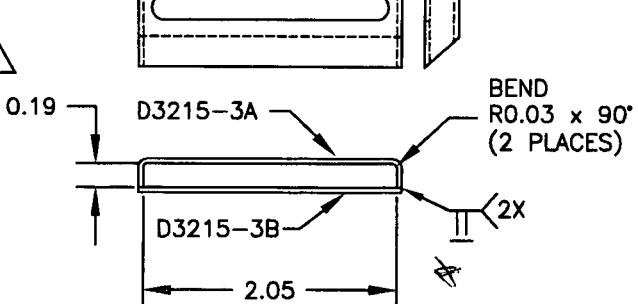
- 1) MATERIAL: 5052-H32 ALUMINUM SHEET, 0.040 THICK
PER QQ-A-250/8 OR AMS 4016
(REF DART SPEC. M5052H32S.040)
- 2) BEND D3215-3A PER D3215-3

D3215-1 LABEL:

- 1) MATERIAL: WHITE TYVEK OR
WHITE POLYESTER WHICH MEETS FMVSS 302
- 2) USE 1/8 BLACK LETTERING
- 3) CENTER ON BELT WIDTH

RELEASED

07.06.07 *#*



D3215-3 WEBBING TIDY

D3215-3 NOTES:

- 1) WELD PER DART QSI 004
- 2) FINISH: CHEMICAL CONVERSION COAT PER
DART QSI 005 4.1
POWDER COAT BLACK SANTEX (4.3.5.7)
PER DART QSI 005 4.3

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OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
			Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>				
			Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>				
			Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>				
			Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
				Bending <input type="checkbox"/>	Bend <input type="checkbox"/>	Grain <input type="checkbox"/>	Ovalized <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>			
Centre Not Concentric to O/S				BOM/Route <input type="checkbox"/>	Hardware <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>				
Cracks <input type="checkbox"/>				Broken/Damaged <input type="checkbox"/>	Inspection Incomplete <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Weld <input type="checkbox"/>				
Crushed/Crimped <input type="checkbox"/>				Burrs <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>				
Cuffs <input type="checkbox"/>				Contamination <input type="checkbox"/>	Maintenance <input type="checkbox"/>	Part Moved <input type="checkbox"/>					
Heat Treat <input type="checkbox"/>				Countersink <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>					
Inspection Strip in Tube <input type="checkbox"/>				Cut Too Short <input type="checkbox"/>	Misread <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>					
Ripples in Bend <input type="checkbox"/>				Drill Holes <input type="checkbox"/>	Offset <input type="checkbox"/>		Other <input type="checkbox"/>				
Torque Waves in Extrusion <input type="checkbox"/>				Drawing <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>						
Turning Sequence <input type="checkbox"/>				Finish <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>						
Wave/Twist in Tube <input type="checkbox"/>				Folio <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>						



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO21853

Purchase Order Date 10/28/2013

PO Print Date 10/29/2013

Page Number 1 of 1

Order From :
TULMAR SAFETY SYSTEMS
1123 CAMERON ST
HAWKESBURY, ON K6A 2B8
CA

VC-TUL001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 613 632 1282
Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
Line Comments							
Delivery Comments							
1	D3215-041P	Harness Assembly	11/18/2013 Yes	47.00 Each		\$17.00	\$799.00

AS PER DWG D3215 REV. D
B108648

Line Total: \$799.00

PO Total: \$799.00

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES NO

PST# 6122-5207

Change Nbr: 2 Change Date: 10/29/2013

PACKING SLIP

TULMAR

Tulmar Safety Systems Inc.
1123 Cameron Street
Hawkesbury, ON K6A 2B8 CA
Tel: 613-632-1282
Fax: 613-632-2030
MID : XOTULSAF1123HAW
email: info@tulmar.com

Packing Slip No.

49981

Ship Date

11-Nov-13

Bill To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7. Canada

Ship to:

Dart Aerospace
1270 Aberdeen Street
Tel: 613-632-9577
Att: Chantal Lavoie
Hawkesbury, ON K6A 1K7. Canada

Order number	Sales order date	Account number	Account manager	
31189	30-Oct-13	CDART100	Helena Vandeweerd	
PO number	Ship Via	Shipping Terms		
PO21853	Pick-Up	FOB HAWKESBURY		
Item No.	Quantity ordered	UOM	Qty Shipped/Returned	Quantity on back order
Description				

8937 47 EA 47

Belt Ass'y, /2" wide, Black Webbing
Drawing No: D3215 (P/N D3215-041)
DWG Rev: D
LN 1

Lot No: BATCH000000033 Qty: 47

Shipper



Date:

NOV 11 2013

Certificate of Conformance

See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.
If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector



Date:

NOV 11 2013

Belt-Tech Products Inc.**Certificate of Compliance No : 56 412**
 Page : 1 de 1
 Date : 2010-10-22
 Time : 13:31:04

Pattern : 27039

Width : 47.000

Dye lot No : 432674

Color : CG008 BLACK

Meters : 6 728.00

Warp Order :

Customer : TULMAR SAFETY SYSTEMS
Nissan

Test Date : 2010/10/22

Customer Part Number 18440-00

Legend : Y = Good - Pass
N = Fail

Test Method	Date	Type of Test	Min. Spec.	Max. Spec.	Median	Test 1	Test 2	Test 3
FMVSS 209	2009/10/01	Width - no load (mm)	46.000	48.000	47.930	47.840	47.970	47.930 Y
SAE J 882	2007/09/01	Thickness - original (mm)	1.140	1.400	1.175	1.185	1.175	1.175 Y
ASTM D-3775	2008/07/01	Picks per cm	7.000		7.200	7.200	7.200	7.200 Y
FMVSS 209	2009/10/01	Elongation - @ 11.1 kn load (%)		20.000	6.310	6.310	6.120	6.640 Y
FMVSS 209	2009/10/01	Tensile - original (lbs)	6,700.000		7,167.000	7,167.000	7,086.000	7,182.000 Y
FMVSS 209	2009/10/01	Tensile - hex-bar % of original	75.000		91.700	91.500	91.900	91.700 Y
AATCC TM 8	2007/01/01	Crocking "wet"	3.000		4.000	4.000	4.000	4.000 Y
AATCC TM 8	2007/01/01	Crocking "dry"	3.000		4.500	4.500	4.500	4.500 Y
AATCC TM 107	2009/01/01	Dye stability (staining)	*	3.000	4.500	4.500	4.500	4.500 Y

Specification(s) : FMVSS 209 revised on 2008-10-01

FMVSS 302 revised on 2008-10-01

Comment(s)

This is to certify that this product conforms to the specification(s) mentioned above and the requirement(s) outlined in the Purchase Order # and was tested at $22 \pm 3^{\circ}\text{C}$ temperature and 45-55 % relative humidity.
 Not applicable for downgraded (second) material

If this document is not signed, it is to be regarded as a non-controlled version

Tested by:

Approved by:

4.10-1403E (2010-03-31)

Used to mfg. D3215-041

BS 2281/12 (S)



cansew inc.

formerly / anciennement

Canadian Sewing Supply Ltd. / Ltée - established / établie 1924

Manufacturers of sewing threads. / Wholesalers of elastics, Velcro, tapes, trimmings.
Fabricants de fils à coudre. / Grossistes d'élastiques, Velcro, galons, garnitures.

16 September 2008

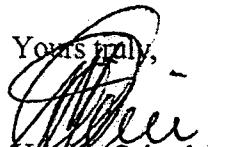
Tulmar Safety Systems
1123 Cameron Street
Hawkesbury, Ontario
K6A 2B8

Attn. Sandra Nadeau

CERTIFICATE OF COMPLIANCE

This is to certify that the items mentioned below, shipped to Tulmar Safety Systems by CANSEW INC. on 16 September 2008, have been produced in accordance with the requirements of Purchase Order no. 14743-00 of the same date:

- * -Bonded Nylon CB207 - 20.05 lb, colour black, lot # 710805, meeting the requirements of specification V-T-295, Type 2, Class A, Size 3, 3 ply
- Bonded Nylon CBB92 - 64.30 lb, colour OG-107, lot # 667896 and 587426, meeting the requirements of specification V-T-295, Type 2, Class A, Size F

Yours truly,

Helmut Schachter
CANSEW INC.

MONTRÉAL - Head Office/Siège social
111 Chabanel W/O H2N 1C9
Administration (514) 382-2807
Commandes/Orders (514) 382-2801
1-800-361-7722
FAX: (514) 385-5530

TORONTO
28 Apex Rd. M6A 2V2
(416) 782-1122
1-800-387-8584
FAX: (416) 782-8358

WINNIPEG
1674 Church Ave R2X 2W9
(204) 942-4264
1-800-665-0701
FAX: (204) 947-9280

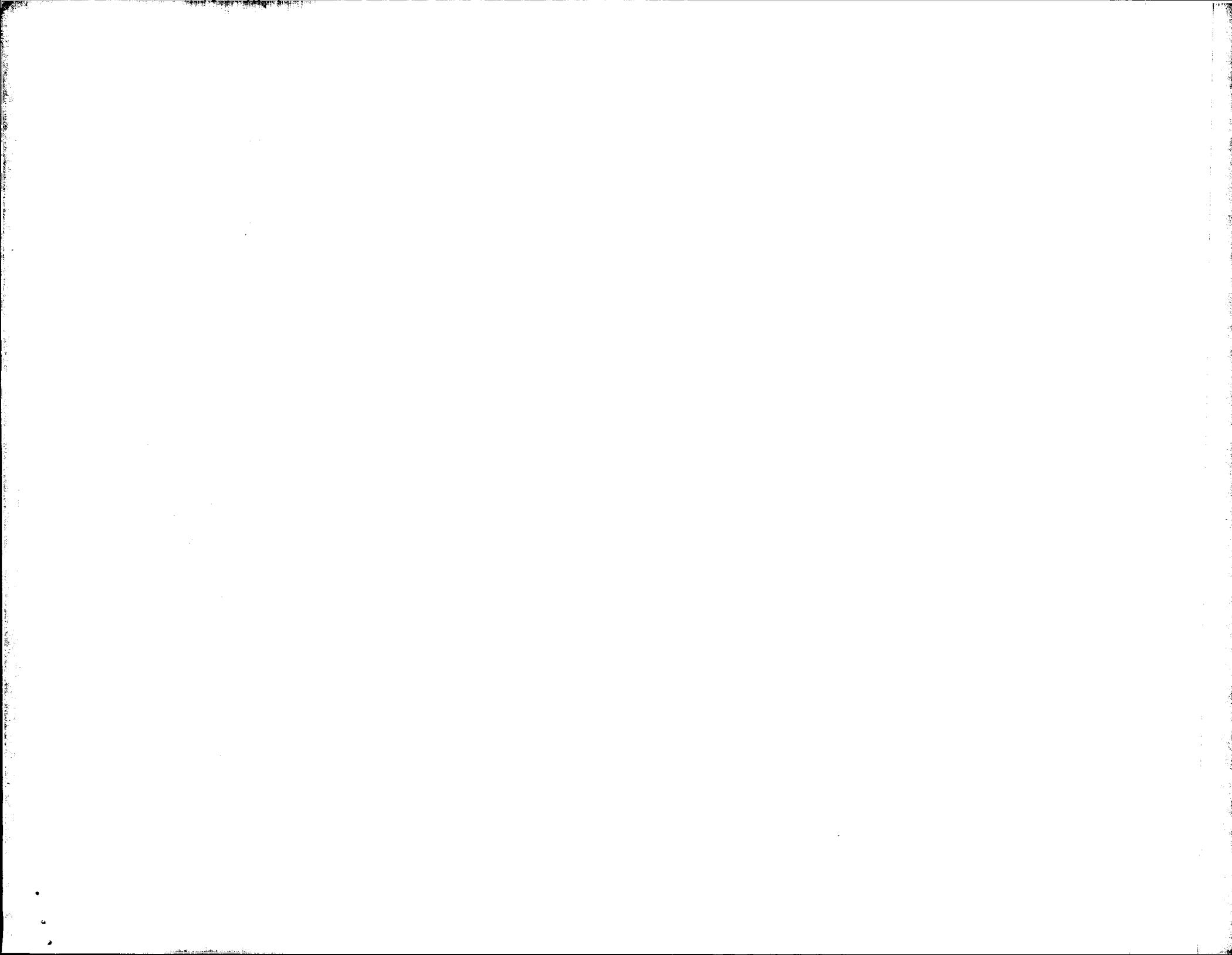
CALGARY
3932 - 29th St. N.E. T1Y 6B6
(403) 291-4494
1-800-667-4197
FAX: (403) 291-5139

VANCOUVER
1615 Venables St. V5L 2H1
(604) 682-4341
1-800-580-0737
FAX: (604) 682-4196

info@cansew.ca

TSS# 2524/54
www.cansew.ca

TSS# 2525/41 (S)



TULMAR

Certificate of Conformance

Tulmar P/N 22019-001	Description Kit, white/Blk Thermal. 2360 NWT 1-3/8 " web Transfer tape FMUSS 302	Dwg # /	Revision /	Qty 1 EA
Tulmar PO # 5689	Line Item # Supplier Name / Address Avery Dennison		Supplier Packing Slip # AVY-8164474	

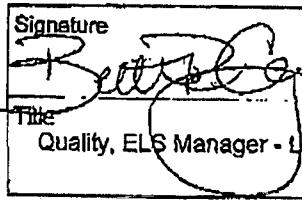
Supplier Declarations:

Hazardous Materials Acknowledgement	The items described below may contain, and their processing may have included, the following substances:	Hexavalent Chromium; Cadmium; Beryllium; Nickel; Mercury; Lead; Asbestos; Radioactive elements
		YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/>
Country of Origin of Goods : Japan		if YES, please complete the HazMat Acknowledgement form @ www.tulmar.com
Limited Shelf-Life	<u>Definition:</u> If material is consumed or transformed into final product before end of shelf-life there is no effect on final product.	These items have a limited Shelf-Life
		YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
Expiry date	<u>Definition:</u> Date after which performance will no longer be as intended - expiration is transferred to the final product.	These items have an expiry date
		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
if YES, please complete the Time Expired – Shelf-Life questionnaire @ www.tulmar.com		

Additional Information (MRS#, MRA#, limitations, etc...):

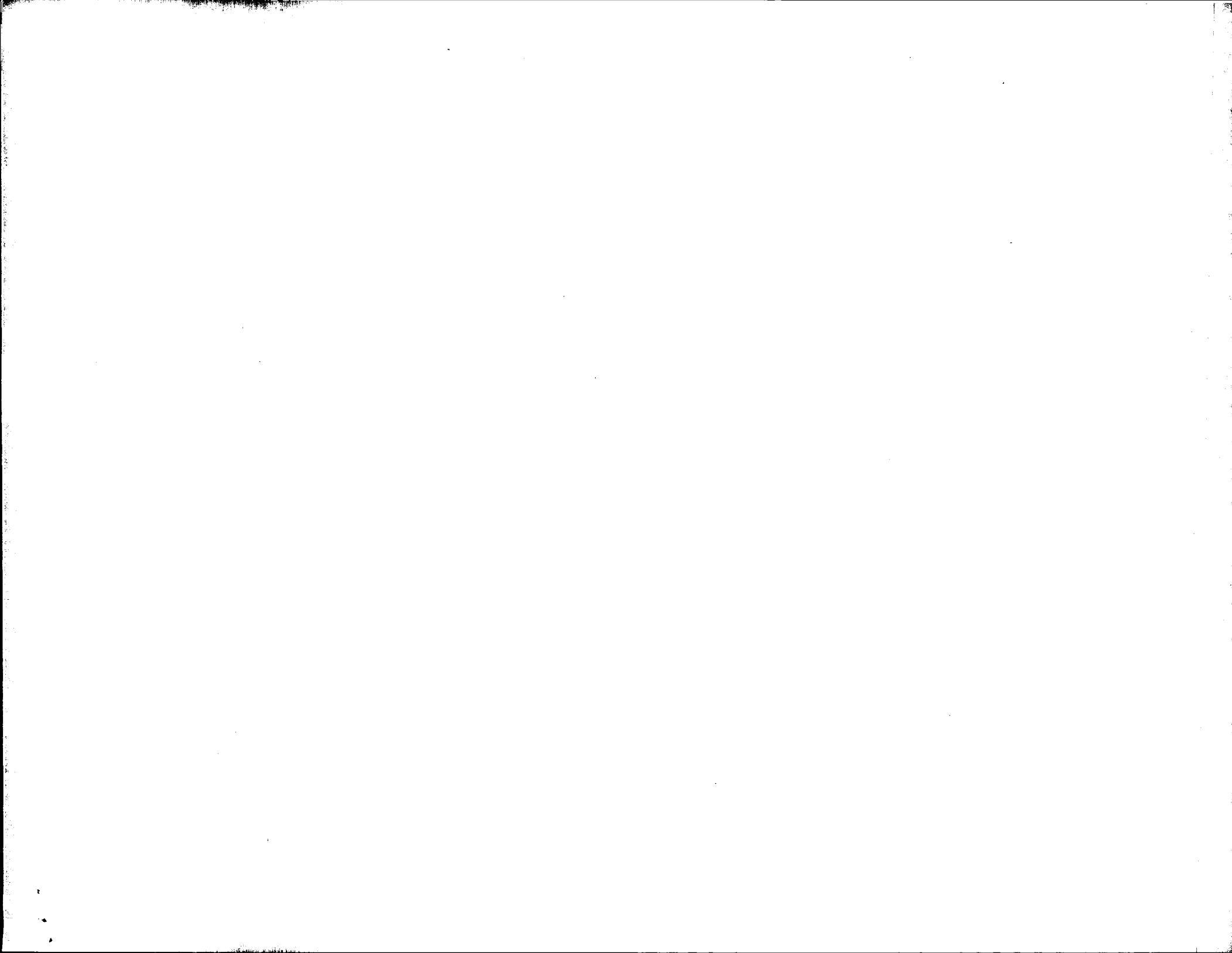
Shelf life is 2 years from date of manufacture.

I hereby certify that the goods listed hereon have been inspected and/or tested, as applicable, and conform to all specifications and requirements detailed in the contract or purchase order and relevant quality clauses. Objective evidence to support this statement is on file and can be made available upon request. Should further information be required, please contact:

Signature 	Name Bethany Covey	Date (DD-MM-YYYY) 07-Aug-2013
Title Quality, ELS Manager - Lenoir facility	Email bethany.covey@averydennison.com	Phone # 828-759-3436

Form Revision 13 Aug 2012

TSS # 22019-001/06





American & Efird Inc.
Post Office Box - 507
Mount Holly, NC - 28120
Certificate of Compliance

Date : 3/23/2011

Mfg. Date : 3/27/2010

Lot Id : 705150

Quantity: 43

Product : Tex 90 BONDED 'Z' NYLON FILAMENT Black AA 63002 16 OZ

Specification : A-A-59826 TPII CLA F BT92N4

Customer Order Number : 17499-00

Plys (Visual) : 4

Customer : Tulmar Safety Inc.

Twist Direction : Z

Shipped To : Tulmar Safety Inc.

A&E Color : 63002 Black
AA

Description : Bright, Continuous Multifilament Nylon, Melting Point >472F; Colorless Nylon Polymer Bond;
Polypropylene Spools

Characteristic	Test1	Test2	Test3	Test4	Test5	Average	Minimum	Maximum
Strength #1 (Pound)	15.2	15.7	15.6	15.7	15.8	15.6		
Strength #2 (Pound)	15.4	15.1	15.2	15.4	14.8	15.2		
Average Strength (Pound)						15.4	11.8	
Elongation #1 (Percent)	20.5	22.4	21.8	22	21.8	21.7		
Elongation #2 (Percent)	22.3	21.4	21.9	22.5	21.1	21.9		
Average Elongation (Percent)						21.8		26
Lube								
						Pass	Pass	
Twist S #1 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2		
Twist S #2 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2		
Average Twist S (Turns per inch) Initial Twist						12.2		
Twist Z #1 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1		
Twist Z #2 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1		
Average Twist Z (Turns per inch) Final Twist						8.1	5.5	
Yield #1 (Yards/Pound)	4211.8					4211.8		
Yield #2 (Yards/Pound)	4114.7					4114.7		
Average Yield (Yards/Pound)						4163.2	3601	5200
Laundry #1 (Grading Scale)	5					5		
Laundry #2 (Grading Scale)	5					5		
Average Laundry (Grading Scale)						5	3	5
Dry Cleaning #1 (Grading Scale)	5					5		
Dry Cleaning #2 (Grading Scale)	5					5		

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Average Dry Cleaning (Grading Scale)	
Perspiration #1 (Grading Scale)	5
Perspiration #2 (Grading Scale)	5
Average Perspiration (Grading Scale)	
Color Fastness to Light #1 (Grading Scale)	5
Color Fastness to Light #2 (Grading Scale)	5
Average Color Fastness to Light (Grading Scale)	

5	3	5
5		
5		
5	3	5
5		
5		
5	3.4	5

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Signed : *Joseph D. Munday*

Joseph D. Munday
Testing Director

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